8-Port PoE Fast Ethernet TP + 2-Port Gigabit Combo Layer 2 SNMP Switch

Product Overview

The LevelOne GSW-0891 is a high-performance managed Layer 2 Network Switch that offers functionality with flexible network connectivity features. It features PoE capability and is an ideal solution for workgroups and departments that need advanced Layer 2 managed switching and advanced network security.

Power over Ethernet Enabled

This Layer 2 Managed Switch is IEEE 802.1af Power over Ethernet compliant offer flexible deployment and connectivity to network devices such as network cameras, VoIP phones, access points and other PoE enabled devices.

With automatic load sensing and interactive power transmission and port monitoring, the GSW-0891 automatically senses and adjusts power output requirement to each connected device before providing power. Total switch power output is 123.3W with each port able to transmit 15.4W and featuring overload and short-circuit protection.

Advanced Layer 2 Switching Capability

The GSW-0891 network switch offers 5.6Gbps non-blocking switching architecture for wire-speed transmission on its eight PoE enabled 10/100Mbps Fast Ethernet ports and two shared dual fiber mini-GBIC Gigabit or copper Gigabit Ethernet ports.

With IEEE 802.1Q VLAN tagging capability, the GSW-0891 offers networks with 256 private virtual LAN groups. Each VLAN can be isolated to protect privacy or provide network guests with restrictive access. When different network devices, such as access points, network cameras or VoIP phones are deployed on the network, administrators can set each group of devices to a separate network to enhance security and efficiency.

Other advanced enterprise features include IEEE 802.1p QoS/CoS, 802.1x, 802.1d/w spanning tree, IGMP snooping, 802.3ad Link Aggregation, SNMP versions 1/2c/v3 and 802.1X port-based Network Access Control.

GSW-0891

Key Features

- 8-Port Managed Ethernet Switch with shared fiber or copper ports
- Dual Gigabit uplinks provide increased bandwidth and redundancy
- 15.4W per port Power over Ethernet enabled for flexible network deployment
- 5.6Gbps, non-blocking, store-and-forward switching architecture
- Includes 802.1x Port Authentication and MAC address filtering for network security
- Features X-Ring network self-recovery
- Advanced Layer 2 SNMP v1, v2c, v3 management features
- 802.1Q based VLAN offering 256 private network groups
- Advanced QoS enables optimized network application data transmission
- Support 802.1ab Link Layer Discovery Protocol (LLDP)
- Supports 802.3ad Link Aggregation
- Compliant with IEEE 802.1p QoS
- Provides support for Cisco Legacy PD

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Technical Specification

Network Interface

Standard Compliance
IEEE 802.3 10Base-T Ethernet
IEEE 802.3u 100Base-TX Ethernet
IEEE 802.3ab 1000Base-T Ethernet
IEEE 802.3z 1000Base-X Fiber
IEEE 802.3x Flow control and Back Pressure
IEEE 802.3ad Port Trunk with LACP
IEEE 802.3af Power over Ethernet
IEEE 802.1d Spanning Tree Protocol
IEEE 802.1w Rapid Spanning Tree Protocol
IEEE 802.1p Quality of Service
IEEE 802.1Q VLAN Tagging
IEEE 802.1x User Authentication (Radius)
IEEE802.1ab LLDP
Cisco Legacy PD

Network Connectivity
8x RJ-45 Fast Ethernet Ports
- *Support auto MDI/MDI-X*
- *Support auto-negotiation*

2x RJ-45 + 2x 100/1000 SFP socket for Mini-GBIC
1x Console Port (D-Sub 9-pin Female (DCE))

PoE
Ports 1 ~ 8 support IEEE 802.3af End-point, Alternative B mode
123.2W total (15.4W per port)

Protocol
CSMA/CD

Switch Architecture
Back-plane: 5.6Gbps
Packet throughput): 8.3Mpps @64bytes

Packet Buffer
1Mbits

Mac Address
8K MAC address table

Physical Specifications

Power Supply
100 ~ 240V AC, 200W

Redundant Power Supply
48V DC

Power Consumption
135 Watts

Operating Temperature and Humidity
0°C to 45°C
5% to 95% (Non-condensing)

Storage Temperature
-40°C to 70°C

Switch Cooling
1x back fan with fail detection

LED
Power
Link/Activity

Dimensions
270mm (W) x 210mm (D) x 44mm (H)/ 11"
Support 11" wall mount and 19" rack mount

Certification
EMI: FCC Class A, CE
Safety: UL, cUL, CE/EN60950-1

Package Contents

GSW-0891 PoE Layer 2 Network Switch
Four rubber pads
RS-232 cable
Power Cord
User Manual
CD

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Software and Management Features

Management
SNMP v1 v2c, v3/ Web/Telnet/CLI/Menu Driven**

SNMP MIB
RFC 1215 Trap, RFC1213 MIBII, RFC 1157 SNMP MIB, RFC 1493 Bridge MIB, RFC 2674 VLAN MIB, RFC 1643 , RFC 1757, RSTP MIB, Private MIB, PoE MIB

VLAN
IEEE 802.1Q Port Based VLAN
256 VLAN ID entries
Support up to 4K, for 4096 VLAN ID entries
256 GVRP Groups
Double Tag VLAN (Q in Q)

Port Trunk with LACP
4 Trunk groups/Maximum 4 trunk members

QoS
Support IEEE 802.1p Class of Service
Provides 4 priority queues per port
Port base, Tag base and Type of Service Priority

Port Mirror
Support 3 mirroring types: RX, TX and Both packets

Security
Port Security: MAC address filtering
IP Security: IP address security management
Login Security: IEEE 802.1X Radius

Spanning Tree
Support IEEE802.1d Spanning Tree
Support IEEE802.1w Rapid Spanning Tree

X-ring
Support X-ring, Dual Homing, and Couple Ring
Provide redundant backup feature and the recovery time below 300ms

LLDP
Support LLDP to allow switch to advise its identification and capability on the LAN
below 300ms

IGMP
Support IGMP snooping v1,v2
256 multicast groups and IGMP query

IP Security
Support 10 IP addresses that have permission to access the switch management and to prevent unauthorized intruder

Login Security
Support IEEE802.1X Authentication/RADIUS

Flow Control
Support Flow Control for Full-duplex and Back Pressure for Half-duplex

System Log
Support System log record and remote system log server

SMTP
Support SMTP Server and 6 e-mail accounts for receiving event alert

Bandwidth Control
Support ingress packet filter and egress packet limit
Support Broadcast/Multicast/Unknown Uni-cast packet filter control
Egress packet rate limit: 100K~250Mbps
Ingress packet filter rate: 100k to 250Mbps

DHCP
Provide DHCP Client/ DHCP Server/ IP Relay functions

DNS
Provide DNS client feature and support Primary and Secondary DNS server.

SNTP
Support SNTP to synchronize system clock in Internet

Firmware Update
Support TFTP firmware update, TFTP backup and restore.

Configuration upload and download
Support text format configuration file for system quick installation

SNMP Trap
SNMP Trap station up to 3

- Device cold start
- Authentication failure
- X-ring topology changed
- Port Link up/Link down
- Power Status
- AC disconnect trap-PoE port event
- DC disconnect trap-PoE port Event
- Disconnect PD off-PoE port event
- Over loading trap-PoE port event
- Short circuit trap-PoE port event
- Over Temp protection trap –PoE port event.
- Power management –PoE port off event

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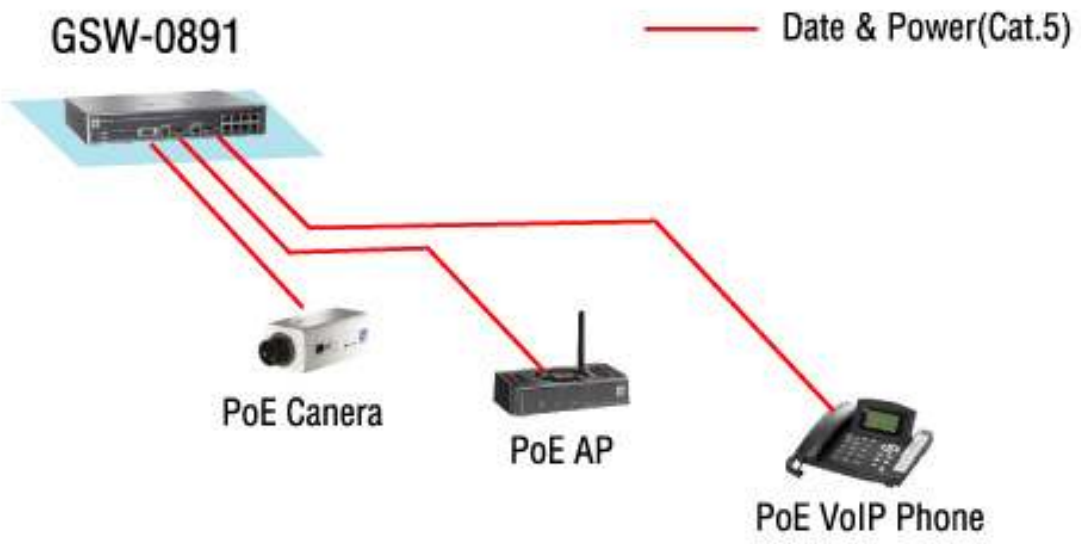
Product Diagram



Order Information

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